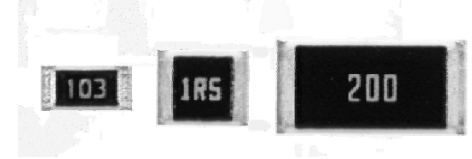


- Features:
- Nickel Barrier terminations standard
 - Power derating from 100% at 70°C to zero at +155°C
 - Zero ohm available (max resistance 0.05Ω)
 - RoHS compliant



Electrical Specifications								
Type / Code	Old Type Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Maximum Current	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance (2)	
							1%	5%
RMCF0201	1/20	0.05W	25V	50V	1 Amp	± 400 ppm/°C + 200 ppm/°C	1 ~ 9.76 10 ~ 10M	1 ~ 9.1 10 ~ 10M
RMCF0402	1/16S	0.063W	50V	100V	1 Amp	± 300 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	0.2 ~ 0.590 0.604 ~ 9.76 10.0 ~ 1M 1.02M ~ 10M	0.2 ~ 0.56 0.62 ~ 9.1 10.0 ~ 1M 1.1M ~ 20M
RMCF0603	1/16	0.1W	50V	100V	1 Amp	± 600 ppm/°C ± 200 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	0.1 ~ 0.976 1 ~ 9.76 10 ~ 1M 1.02M ~ 10M	0.1 ~ 0.91 1 ~ 20M - -
RMCF0805	1/10	0.125W	150V	300V	2 Amp	± 200 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	0.1 ~ 9.76 10 ~ 1M 1.02M ~ 10M	0.1 ~ 20M - -
RMCF1206	1/8	0.25W	200V	400V	2 Amp	± 200 ppm/°C ± 100 ppm/°C ± 200 ppm/°C	0.1 ~ 9.76 10 ~ 1M 1.02M ~ 10M	0.1 ~ 20M - -
RMCF1210	1/4	0.33W(3)	200V	400V	3 Amp	± 200 ppm/°C ± 400 ppm/°C ± 200 ppm/°C ± 100 ppm/°C	0.1 ~ 0.976 1 ~ 9.76 - 10 ~ 10M	0.1 ~ 0.91 1 ~ 9.1 10 ~ 20M -
RMCF2010	1/2	0.75W(3)	200V	400V	3 Amp	± 200 ppm/°C ± 400 ppm/°C ± 200 ppm/°C ± 100 ppm/°C	0.1 ~ 0.976 1 ~ 9.76 - 10 ~ 10M	0.1 ~ 0.91 1 ~ 9.1 10 ~ 10M -
RMCF2512	1	1W	200V	400V	3 Amp	± 200 ppm/°C ± 400 ppm/°C ± 200 ppm/°C ± 100 ppm/°C	0.1 ~ 0.976 1 ~ 9.76 - 10 ~ 10M	0.1 ~ 0.91 1 ~ 9.1 10 ~ 10M -

(1) Lesser of \sqrt{PR} or maximum working voltage. (2) Contact factory for extended ohmic values (3) Power rating is 0.500W for ohmic values below 1Ω



Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RMCF0201	0.024 ± 0.001 0.60 ± 0.03	0.011 ± 0.001 0.30 ± 0.03	0.009 ± 0.0004 0.23 ± 0.01	0.006 ± 0.002 0.15 ± 0.05	0.006 ± 0.002 0.15 ± 0.05	inches mm
RMCF0402	0.039 ± 0.004 1.00 ± 0.10	0.020 ± 0.002 0.50 ± 0.05	0.011 ± 0.004 0.30 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	0.010 ± 0.004 0.25 ± 0.10	inches mm
RMCF0603	0.061 ± 0.006 1.55 ± 0.15	0.031 + 0.006 / - 0.004 0.80 + 0.15 / -0.10	0.018 ± 0.004 0.45 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	inches mm
RMCF0805	0.079 ± 0.008 2.00 ± 0.20	0.049 ± 0.004 1.25 ± 0.10	0.020 ± 0.006 0.50 ± 0.15	0.014 ± 0.010 0.35 ± 0.25	0.014 ± 0.010 0.35 ± 0.25	inches mm
RMCF1206	0.126 ± 0.010 3.20 ± 0.25	0.063 ± 0.006 1.60 ± 0.15	0.021 ± 0.006 0.55 ± 0.15	0.020 ± 0.012 0.50 ± 0.30	0.020 ± 0.012 0.50 ± 0.30	inches mm
RMCF1210	0.126 ± 0.010 3.20 ± 0.25	0.098 ± 0.008 2.50 ± 0.20	0.021 ± 0.006 0.55 ± 0.15	0.020 ± 0.012 0.50 ± 0.30	0.020 ± 0.012 0.50 ± 0.30	inches mm
RMCF2010	0.197 ± 0.008 5.00 ± 0.20	0.098 ± 0.008 2.5 ± 0.20	0.021 ± 0.006 0.55 ± 0.15	0.024 ± 0.012 0.60 ± 0.30	0.024 ± 0.014 0.60 ± 0.35	inches mm
RMCF2512	0.248 ± 0.008 6.30 ± 0.20	0.126 ± 0.008 3.20 ± 0.20	0.021 ± 0.006 0.55 ± 0.15	0.024 ± 0.012 0.60 ± 0.30	0.024 ± 0.014 0.60 ± 0.35	inches mm

Performance Characteristics		
Test	Test Conditions (JIS C 5202)	Test Results
Short Time Overload	2.5x rated voltage for 5 seconds	± (2% + 0.1Ω)
Dielectric Withstanding Voltage	100 VAC, 1 minute	± (1% + 0.05Ω)
Resistance to Soldering Heat	260°C ±5°C, for 10 sec. ±0.5 sec. (Solder Bath)	± 1%
Solderability	235°C ±5°C, for 2 sec. ±0.5 sec. (Colophonium flux)	95% coverage, minimum
Temperature Cycle	-65°C: 30 min. 25°C: 2 to 3 min. 155°C: 30 min. 25°C: 2 to 3 min. (5 Cycles)	±(1% + 0.05Ω) Jumper (<0.05Ω)
Endurance (Damp load)	40°C ± 2°C, 90% RH, Rated Load 90 min. On, 30 min. Off for 1,000 hrs. -0hrs./+48hrs.	±(3% + 0.1Ω) Jumper (<0.05Ω)
Endurance (Rated load)	70°C ± 2°C, Rated Load 90 min. On, 30 min. Off for 1,000 hrs. -0hrs./+48hrs.	±(3% + 0.1Ω) Jumper (<0.05Ω)
Voltage Coefficient	1/10 rated voltage for 3 sec. max. then rated voltage for 3 sec. max.	±100 (ppm/V)
Robustness of Termination	Bend of 3mm for 5 ± 1 sec.	± (1% + 0.05 Ohm)

Operating Temperature Range: -55°C to +125°C (0201 size)
-55°C to +155°C (all others)

How to Order

1 2 3 4 5 6 7 8 9 10 11 12 13 14

R M C F 0 6 0 3 J T 4 K 7 0

Product Series		Size	Power	Tolerance			Packaging				Resistance Value
RMCF	Thick Film Chip Resistors	0201	0.05W	Code	Tol	Value	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 0.1 ohm = R100 4.70 ohm = 4R70 10.0 Kohm = 10K0 1 Mohm = 1M00 Zero ohm jumper = 0R00
		0402	0.063W	F	1%	E96, E24	T	7" Reel - Paper Tape	0201, 0402	10,000	
		0603	0.1W	J	5%	E24			0603, 0805, 1206	5,000	
		0805	0.125W	Z	jumper				1210, 2010, 2512	4,000	
		1206	0.25W				G	10" Reel - Paper Tape	0603, 0805, 1206	10,000	
		1210	0.33W				B	Bulk	0603, 0805, 1206	1,000	
		2010	0.75W								
		2512	1W								

Legacy Part Number (before January 3, 2011):

SEI Type		Code			Nominal Resistance	Tolerance		Packaging			
RMC		1/16			4.7K	5%		R			
Type	Description	Code	Wattage	Size	Tolerance	Values	SEI Types	Pkg Qty	Description	Code	
RMC	Standard	1/20	0.05W	0201	1%	E96, E24	0201, 0402	10,000	7" reel - paper tape	R	
RMCF	RoHS	1/16S	0.063W	0402	5%	E24	0603, 0805, 1206	10,000	10" reel - paper tape	G	
		1/16	0.1W	0603				5,000	7" reel - paper tape	R	
		1/10	0.125W	0805				1,000	bulk	A	
		1/8	0.25W	1206			1210, 2010, 2512	4,000	7" reel - plastic tape	R	
		1/4	0.33W	1210							
		1/2	0.75W	2010							
		1	1W	2512							